

ACCESSION NR: AP4010482

S/0080/64/037/001/0095/0099

AUTHOR: Gerasyutina, L. I.; Bry*nya, A. P.

TITLE: Effect of urotropine and potassium iodide on the corrosion of titanium in sulfuric and hydrochloric acids.

SOURCE: Zhurnal prikladnoy khimii, v. 37, no. 1, 1964, 95-99

TOPIC TAGS: titanium, corrosion, corrosion inhibition, passivation, urotropine, urotropine potassium iodide mixture

ABSTRACT: In studying the corrosion resistance of titanium (VT1-2) in different concentrations of H_2SO_4 and HCl at 20C and 100C in the presence of urotropine, KI, or mixtures of the two, it was established that the protective action of urotropine does not exceed 70% in 5-7N HCl and in 5-10N H_2SO_4 solutions. Urotropine is most effective in 10N HCl at 20C (83% protection) and in 25N H_2SO_4 at 100C (97% protection). KI intensifies the protective action of urotropine in 25N H_2SO_4 ; a 100% effective mixture at 20C contains 500 mmol. /l.

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of urotropine and 5 g./l. KI. In 10N H₂SO₄ at 100C, 500 mmol./l. urotropine and 30 g./l. KI affords 94% protection. 30 g./l. KI passivates titanium in 5 and 10N H₂SO₄ and in 5 and 7N HCl solutions at 20C. The complex ion I₃⁻, formed by oxidation with atmospheric oxygen, plays the main role in the process of passivating titanium. Orig. art. has: 5 figures and 2 equations.

ASSOCIATION: Dnepropetrovskiy gosudarstvennyy universitet (Dnepropetrovsk State University)

SUBMITTED: 06Jul62 DATE ACQ: 14Feb64 ENCL: 00

SUB CODE: CH, ML NO REF SOV: 014 OTHER: 002

Card 2/2

ACCESSION NR: AP4010483

S/0080/64/037/001/0099/0102

AUTHORS: Bry*nza, A. P.; Gerasyutina, L. I.

TITLE: Influence of some aniline and phenol derivatives on the corrosive and electrochemical behavior of titanium in sulfuric acid.

SOURCE: Zhurnal prikladnoy khimii, v. 37, no. 1, 1964, 99-102

TOPIC TAGS: titanium, corrosion resistance, electrochemical properties, equilibrium potential, passivation, corrosion inhibitor, p-aminophenol, p-nitrophenol, p-nitroaniline

ABSTRACT: The corrosion resistance and electrochemical properties of titanium (VT1-2) were studied in 10N H₂SO₄ at 20°, 40° and 60° in the presence of p-aminophenol, p-nitrophenol, and p-nitroaniline. p-Aminophenol shows corrosion inhibiting action only when there is an oxide film on the titanium surface. p-Nitrophenol is a corrosion inhibitor for titanium in 10N H₂SO₄ only at 20°, the other two inhibitors are effective at 20-60°. The inhibiting action of these materials is associated with shifting the equilibrium potential

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of titanium to a more positive region than the potential of its complete passivation. Orig. art. has: 5 Figures and 1 Table.

ASSOCIATION: Dnepropetrovskiy gosudarstvennyy universitet
(Dnepropetrovsk State University)

SUBMITTED: 10Jul62 DATE ACQ: 14Feb64 ENCL: 00

SUB CODE: CH, ML NR REP SOV: 004 OTHER: 001

Card 2/2

ACCESSION NR: AP4018068

S/0080/64/037/002/0367/0373

AUTHORS: Bryznya, A.P.; Gerasyutina, L.I.

TITLE: Effect of urotropine on the corrosive and electromechanical behavior of titanium in hydrochloric acid solutions.

SOURCE: Zhurnal prikladnoy khimii, v.37, no.2, 1964, 367-373

TOPIC TAGS: titanium, corrosion, electrochemical behavior, urotropine, titanium activation, titanium passivation, potentiostatic polarization, acid corrosion

ABSTRACT: The possibility of using urotropine to protect titanium from acid corrosion was investigated. Urotropine has no effect on the temperature coefficient of the rate of reaction of HCl solutions on Ti (VT1-2) in the temperature interval 20-100C. The behavior of titanium under these conditions was studied by the potentiostatic polarization method. Increasing the concentration and temperature of the acid solutions containing urotropine shifts the titanium passivation and activation potentials in the direction of positive

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ACCESSION NR: AP4018068

values, i.e., its passivation is retarded. Urotropine is most effective in concentrated HCl at 20C and in 7 N HCl at 100C. Orig. art. has: 10 figures.

ASSOCIATION: Dnepropetrovskiy gosudarstvennyy universitet
(Dnepropetrovsk State University)

SUBMITTED: 08Oct62 DATE ACQ: 19Mar64 ENCL: 00

SUB CODE: ML, CH NR REF SOV: 012 OTHER: 002

Card 2/2

ACC NR: AP6036110

(N)

SOURCE CODE: UR/0365/66/002/006/0664/0667

AUTHOR: Bryntza, A. P.; Gerasyutina, L. I.

ORG: Dnepropetrovsk State University (Dnepropetrovskiy gosudarstvennyy universitet)

TITLE: The mechanism of the action of mononitroanilines and mononitrophenols on the corrosion of titanium in sulfuric and hydrochloric acids

SOURCE: Zashchita metallov, v. 2, no. 6, 1966, 664-667

TOPIC TAGS: corrosion, titanium corrosion, corrosion inhibitor, inhibition, mechanism

ABSTRACT: Mononitroanilines and mononitrophenols were shown to be effective inhibitors of titanium corrosion in sulfuric and hydrochloric acids at temperatures up to 100C (Fig. 1). The corrosive media tested were 5N, 7N and 10N HCl and 5N, 10N and 25N H₂SO₄ with 0, 100, 200 or 500 m mol/l n-nitroaniline added. The mechanism of inhibitors' action can be that of pure oxidation, chemisorption, or combination of

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UDC: 620.197.3

ACC NR: AP6036110

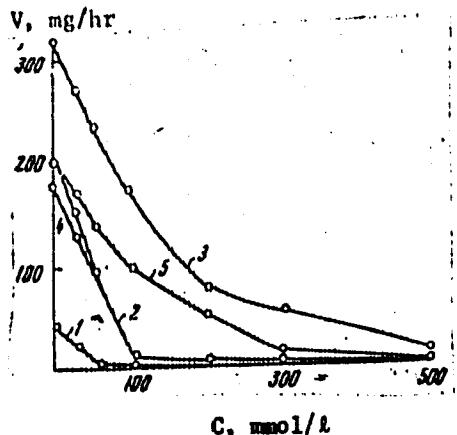


Fig. 1. Dependence of the titanium corrosion rate on the concentration of n-nitroaniline in sulfuric and hydrochloric acids at 100C

1—3 - 5; 7; 10 n. HCl; 1, 4, 5 - 5;
10; 25 n. H_2SO_4 .

both, depending on the acid temperature and concentration. Orig. art. has:
5 figures.

SUB CODE: 11/ SUBM DATE: 13Jul65/ ORIG REF: 012/ ATD PRESS: 5106

Card 2/2

GERASYUTO, Z.S.

Organic matter of the water media of microbiological experiments.

Trudy VNIGRI no.227 Geckhim, abor. no.9 R6-86 164.

(MIRA 18r1)

KAZMINA, T.I.; GERASYUTO, Z.S.; PETROVA, L.P.

Connate waters in sedimentary rocks. Trudy VNIGRI no.131:393-398
Trudy VNIGRI no.131:393-398 '59. (MIRA 12:9)
(Water, Underground)

Gerasyutio, Z.S.

Determining exchangeable bases in clays containing carbonates and
organic matter. Trudy VMIGRI no.155:308-312 '60. (MIRA 14;1)
(Clay--Analysis) (Ion exchange)

11.0/30

36537

S/081/62/000/006/067/117

B149/B108

AUTHORS: Simakova, T. L., Strigaleva, N. V., Kolesnik, Z. A., Voronova, I. K., Gerasyuto, Z. S., Shmonova, N. I.

TITLE: The role of bacteria in the transformation of hydrocarbons and asphalto-bituminous components of paraffin-base petroleum under anaerobic conditions

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 6, 1962, 527, abstract 6N130 (Tr. Vses. neft. n.-i. geologo-razved. in-ta, no. 174, 1961, 77 - 97)

TEXT: The results of experiments with three different communities of bacteria taken from the water below the petroleum layer in the wells of Tashkal, the Staro-Groznenskiy oil field and the Emba region are described. It is shown that under the biological action of bacteria certain changes occur in the structure of methane hydrocarbons separated from the fraction 250 - 300°C of Tashkal petroleum by forming complexes with urea. The methane hydrocarbons in the analogous fractions of Makhachkala petroleum were not affected by bacteria. The structural composition of aromatic

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S/081/62/000/006/067/117
B149/B108

The role of bacteria in the ...

hydrocarbons in the kerosene and oil fractions was changed, the aromatic rings showing a decrease and the paraffin chains an increase. It is concluded that the change in composition of the hydrocarbons and of the asphalt-bituminous part of petroleum depends both on their chemical composition and on the species-composition of the bacterial community.

[Abstracter's note: Complete translation.]

X

Card 2/2

5/081/62/000/009/060/075
5163/b144

AUTHOR: Gerasyutov, T. S.

TITLE: Contribution to the problem of determining soluble organic acids C₁ - C₄ formed during microbiological change in petroleum

ANALOGICAL: Referativnyj zhurnal. Khimiya, no. 9, 1962, 526 - 527,
Abstract 04232 (Tr. Vses. neft. n.-i. geologo-razved. in-ta,
no. 174, 1961, 218 - 220)

TEXT: Details are given of determining low-molecular fatty acids (C₁ - C₄) in the course of an analysis carried out by paper chromatography whereby volatile acids, formic and butyric, were separated. Conditions which must be observed to ensure reproducibility of the results of analysis are listed.
[Abstracter's note: Complete translation.]

Card 1/1

GERAT, Pavel, inz.; JANKOVSKY, Vlادимír, Ph.D.

Determination of maximum temperatures in the armature of electrical machines with axial ventilation. Práctický výzkum na výrobě motoru Je 164.

1. Higher School of Transportation, Prague.

GERATOVIC, Milan, pukovnik dr.

Psychiatric problems in the aviation medicine. Med. pregl., Novi Sad 7 no.3:217-222 1954.

1. Vazduhoplovno-medicinski institut, Zemun.
(MEDICINE, AVIATION, psychol.
personnel selection)

CHURKIN, A., inshener; GERAVIKR, L., inshener.

Launching vessels by means of a floating support. Mor.flot 15 no.3:
31 Mr '55. (MIRA 8:5)
(Ships---Launching)

ISMAIL-ZADE, T.A.; AGAMIREZOYEV, R.A.; GERAZBEKOV, Sh.A.; GULAYEV, G.P.; GASANOV, K.D.; KARAYEV, E.M.; KAMEGOV, S.A.

Magnetic properties of a producing formation in Hiyit'piri. Dokl.
AN AzerbSSR 20 no.10:45-49 '64.

1. Institut geologii AN AzerbSSR.

ISMAIL-ZADE, T.A.; AGAMIRZOYEV, R.A.; GERAYBEKOV, Ch.A.; GRABOVSKAYA,
G.P.; GASANOVA, K.D.

Magnetic characteristics of paleomagnetic zones of the productive
Atashkya formation. Dokl. AN Azerb. SSR 20 no.12:27-30 '64.
(MIRA 18:4)

1. Institut geologii AN AzerbSSR.

100811-66

BWT(1)/S/A(h) ESD

ACCESSION NR: AP5015912

UR/0103/65/026/006/1112/1114

621.373.9:538.63

AUTHOR: Pogonov, V. N. (Leningrad); Gerayzade, A. P. (Leningrad); Pogodin, V. I. (Leningrad); Fomenko, Ye. P. (Leningrad)TITLE: Galvanomagnetic oscillatorSOURCE: Avtomatika i telemekhanika, v. 26, no. 6, 1965, 1112-1114

TOPIC TAGS: galvanomagnetic oscillator

ABSTRACT: An experimental galvanomagnetic oscillator with an InSb magnetoresistor is briefly described. The oscillator developed 4.4 w continuously or 10 w for a short time at 28 cps and water cooling (was immersed in water); the efficiency was 15% at 10 w. It is pointed out that the existing theory correctly describes the actual oscillator behavior: the discrepancy between the theoretical and experimental oscillatory currents is only 10%. A method of measuring the oscillator characteristics is given. Orig. art. has: 3 figures, 3 formulas, and 1 table.

ASSOCIATION: none

SUBMITTED: 22Feb64

ENCL: 00

SUB CODE: EC

Cord 1/1

NO REF SOV: 002

OTHER: 001

USER/Biology-Zoology

Card 1/1 Pub. 86--5/39

Authors : Gerb, M. A.

Title : Scientific bases for methods of training animals

Periodical : Priroda 44/1, 34--44, Jan 1955

Abstract : Animal training is defined as conditioning the reflexes of an animal so that it will perform prescribed actions on artificial signals given by a person. The various methods of training animals, such as the pain method, the mixed method, which may include the administering of food, and the mechanical method are discussed in detail. Eight Soviet references (1845--1952). Illustrations.

Institution :

Submitted :

GERB, M.A.; KULACHKOV, V.I., inzh., retsensent; MEN'SHIKOV, N.S.,
dots., red.; YURKEVICH, M.P., inzh., red. izd-va;
SHCHETININA, L.V., tekhn. red.

[Compilation and reading of machinery drawings] Sostavlenie
i chtenie mashinostroitel'nykh cherteshei. Moskva, Mashgiz,
1963. 218 p.
(Machinery--Drawing) (MIRA 16:4)

GERB, Mikhail Aleksayevich; FEDORENKO, V.A., inzh., retsenzent; YAKOVITSKIY,
G.N., inzh., red.; VASIL'YEV, V.P., red.izd-va; SHCHETININA, L.V.,
tekhn.red.

[Representation in mechanical drawing] Izobrazhenia v cherte-
zhakh mashinostroeniia. Moskva, Gos.nauchno-tekhn.izd-vo mashino-
stroit.lit-ry, 1960. 163 p.
(Mechanical drawing) (MIRA 13:10)

SHEREGAYEV, Nikolay Pavlovich; KOMANOVSKIY, M.L., inzh., retsenzent;
KULACHKOV, V.I., inzh., retsenzent; GERB, M.A., inzh., red.;
MITARCHUK, G.A., red. izd-va; SPERANSKAYA, O.V., tekhn. red.

[Concise handbook on descriptive geometry and mechanical drawing]
Kratkii spravochnik po nachertatel'noi geometrii i mashino-
stroitel'nomu cherneniiu. Moskva, Mashgiz, 1962. 214 p.

(MIRA 15:3)

(Mechanical drawing)
(Geometry, Descriptive)

Sobolev, N.P.; Gorb, M.A.; Torsin, Yu.Ya., Izdat. tekhn. zhurn.,
dots., red.

[Brief handbook on descriptive geometry and mechanical
drawing] Kratkii spravochnik po nachertatel'noi geometrii
i mashinostroitel'nym rasschislenii. Moscow, Mashino-
stroenie, 1965. 262 p. (MIMA 18:12)

GERBA, M.

Admission of compressed air beneath the working sieve of a piston jig. p. 231,
Vol. 11, no. 6, June 1955, PRZEGIAD GORNICZY
SO:MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, (EAL), LC, Vol. 4, No. 9,
Sept. 1955, Uncl.

STOLYAREN, K.P.; GERBACH, R.

Photometric determination of small quantities of iron in the
ultraviolet region of the spectrum. Vest. LGU 18 no.10:
116-121 '63. (MIRA 16:8)
(Iron compounds--Spectra) (Ascorbic acid)

GKREBACH, Vasiliy Vasil'yevich; KUZNETSOV, Konstantin Alekseyevich;
LIVSHITS, Lev Zakharovich; FLYASUNOV, Vladimir Ivanovich;
KONSTANTINOV, A.P., kand.ist.nauk, obshchiy red.; KAZAROV,
Yu.S., red.; FRUMKIN, P.S., tekhn.red.

[Workers of the Baltic Factory in three revolutions] Rabochie-Baltiitsy v trekh revoliutsiakh. Pod obshchel red. A.P.Konstantinova. Leningrad, Gos.soiuznoe izd-vo sudostroit.promyshl., 1959. 146 p.
(Leningrad--Shipbuilding workers) (MIRA 12:5)

GERBACHEVSKAYA, A.A.

Fungus gnats of the family Lycoriidae (Diptera), injurious to
vegetables and mushrooms in the hothouses near Leningrad.
Ent. oboz. 42 no.3:496-511 '63. (MIRA 17:1)

1. Vsesoyuznyy institut zashchity rasteniy, Leningrad.

GERBACHEVSKAYA, A.A., aspirantka

Harmfulness of the gnats of the family Lycoriidae. Zashch. rast.
ot vred. i bol. 9 no.3:41-42 '64. (MTRA 17:4)

1. Vsesoyuznyy institut zashchity rasteniy.

GANCHEL', F.M., otd.red.; GERBACHEVSKIY, A.F., zasluzhennyy vrach USSR, red.; KAPLINA, A.V., zasluzhennyy vrach USSR, red.; KRASNOMOVETS, V.N., red.; PAVSHA, G.F., zasluzhennyy vrach USSR, red.; KHOLOFTSEVA, Z.I., red.; SNEZHIN, M.I., red.; KOPEYCHIK, P.N., tekhn.red.

[Research articles by physcians of Zhitomir Province, Ukrainian S.S.R.] Nauchnye trudy vrachei Zhitomirskoi oblasti Ukrainskoi SSR. Zhitomir, 1959. 255 p. (MIRA 14:2)

1. Zhitomirskiy oblastnoy otdel zdravookhraneniya. 2. Zaveduyushchiy Zhitomirskim obldzdarvotdelom (for Ganchel'). 3. Zhitomirskaya oblastnaya bol'nitsa (for Gerbachevskiy, Kaplina, Krasnomovets, Pavsha).

(MEDICINE)

GERBACHEVSKIY, V.

Postcard instead of scenery. Nauka i zhizn' 29 no.10:19
O '62. (MIRA 15:12)
(Television—Stage-setting and scenery)

GERBACHEVSKIY, V.

They stay on the ground. Grazhd. av. 22 no. 11:9-11
N '65. (MIRA 18:12)

RUMANIA/Human and Animal Physiology - The Nervous System.

v-3

Abs Jour : Ref Zhur - Biol., No 4, 1958, 19591
Author : St.-M. Milcu, I. Maxim-Bercean, N. Macinescu-Linghel,
Em. Teodorescu and S. Gerban
Inst : -
Title : Examination of Higher Nervous Activity in the Presence of
Testicular Insufficiency by Means of Conditioned Vascular
Responses before and after Testosterone Therapy.
Orig Pub : Studii si cercetari endocrinol. Acad. R.R. 1956, 7, No 3,
271-285

Abstract : In five patients conditioned vascular responses were secured
independently of testosterone. Prior to therapy secured and reinforced conditioned responses, as well as the
unconditioned response were easily inhibited (irradiation
of defensive inhibition for food). After therapy a pro-
gressive increase was observed in the intensity of unrein-
forced conditioned responses. The greater intensity of

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RUMALA/Human and Animal Physiology - The Nervous System.

V-8

Abs Jour : Ref Zhur - Biol., No 4, 1958, 18591

conditioned responses in comparison with unconditioned responses is connected with a negative induction from cortex to subcortical levels. In the weak type of male with testicular hypofunction testosterone therapy gives rise to changes in higher nervous activity corresponding to that manifested in the strong subject.

Card 2/2

GERBACHEVSKAYA, I. V.

Endemic goiter foci in Uzbekistan. Izv.AN Uz.SSR.Ser.med.
no.3:50-55 '59.
(MIRA 12:8)

1. Institut krayevoy meditsiny AN UgSSR.
(UZBEKISTAN--GOITER)

VDOVENKO, V.H.; KOVAL'SKAYA, M.P.; GERBANEVSKAYA, N.H.

Determining the solubility of the uranyl nitrate in diethyl
ether. Report No.1. Trudy Radiev.inst,AN SSSR. 8:8-16 '58.
(MIRA 12:2)
(Uranyl nitrate) (Ethyl ether)

MAYZEL'S, David L'vovich; BYSTROVA, Nataliya Mikhaylovna; GORBANOVSKAYA,
E.M., red.; BRUSHTYN, A.I., red. izd-va; KLYBYMAN, M.P., tekhn.
red.

[Costs of ferrous metals] Sebestoimost' chernykh metallov. Moskva,
Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii,
1958. 187 p. (MIRA 11:9)

(Iron--Cost) (Steel--Cost)

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000514820012-8

GERSANOVSKIY, S.Y.

Engineering survey; short manual for the officer of the engineer corps. 2. izd.,
ispr. i dop. Moskva 'cen. izd-vo, 1943. 166 p. (52-55912)

UG155.R9G4 1943

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000514820012-8"

ГЕРБАНОВСКИЙ, С. Я.

GERBANOVSKIY, S.Ye.; USPENSKIY, N.N., red.; BLAZHENKOVA, G.I., tekhn.red.

[Elements of military engineering] Nachal'nye osnovy voenno-inzhenernogo dela. Moskva, Izd-vo DOSAAF, 1957. 87 p. (MIRA 11:1)
(Military engineering)

GERBANOVSKIY, Sergey Yevgen'yevich; GORCHAKOV, A.D., podpolkovnik, red.;
VOLKOVA, V.Ye., tekhn.red.

[Engineering work on military positions] Inzhenernye raboty na
peatisilakh, Moskva, Voen.izd-vo M-va obor. SSSR, 1957. 179 p.
(Military engineering) (MIRA 11:4)

GERBANOVSKIY, S.Ye., polkovnik, red.; KONOVALOVA, Ye.K., tekhn.
red.

[Instructions for engineer troops; field fortification
(PF-43)] Nastavlenie dlja inzhenernykh voisk; polevaia
fortifikatsiya (PF-43). n.p. Voen.izd-vo Narodnogo ko-
missariata oborony. Pt.2.[Fortified installations] Fortifi-
katsionnye srozhdeniya. 1946. 362 p. (MIRA 15:9)

1. Russia (1923- U.S.S.R) Armiya. Shtab inzhenernykh voysk.
(Fortification, Field)

MORELJ, Marjan; GERBEC, Miroslav

Q fever; research on immunogenic properties of the strain
Pirot. Higijena, Beogr. 8 no.1:25-38 1956.

1. Epidemioloski institut i Mikrobioloski institut katedre za
higijenu i epidemiologiju VMA, Beograd.
(Q FEVER, immunol.
immunogenic properties of strain Pirot (Ser))

GERBEC, Miroslav; MORELJ, Marjan

Q fever; laboratory infection with the strain Pirot.
Higijena, Beogr. 8 no.2-3:117-129 1956.

1. Epidemioloski institut i Mikrobioloski institut Katedre za
higijenu i epidemiologiju VMA.
(Q FEVER, epidemiol.
laboratory infect. with strain Pirot, etiol. & prev. (Ser))

GERBEC, Miro, Dr.; MILOJCIC, Bozana, Dr.

Complement fixation test; aid to general practitioner in diagnosis of present and past typhus infections. Higijena, Beogr. 8 no.2-3:163-171 1956.

1. Institute of Epidemiology Military Medical Academy, Belgrad.
(TYPHUS, epidemiol.
in Yugosl., complement-fixation test findings (Ser))

VUKSIC, Lj.; ABSIC, B.; MEL, D.; MORELJ, M.; GERBEC, M.; MILOVANOVIC, M.;
STOJKOVIC, Lj.; MIRKOVIC, M.; MILIVOJEVIC, M.

Isolation of *Coxiella burnetti* from stable dust. Higijena,
Beogr. 8 no.4:240-245 1956.

1. Katedra za Higijenu i epidemiologiju VMA, Virusolosko
odeljenje Higijenskog instituta NRS, Beograd.
(COXIELLA BURNETTI,

isolation from stable dust (Ser))
(DUST,

isolation of *Coxiella burnetti* from stable dust (Ser))

GERBEC, Viro, Potpukovnik dr.; Morelj, Marjan, pukovnik dr.

Virological laboratory as an aid to physician's clinical and epidemiological work. Voj. san. pregl., Beogr. 1? no.5-6: 266-271; contd., May-June 56.

1. Mikrobiolski Institut Epidemiolski Institut Katedra za higijenu i epidemiologiju VMA.
(VIRUS DISEASES, diag.
laboratory diag. (Ser))
(LABORATORIES, MEDICAL
importance of laboratory tests in diag. of virus dis.
(Ser))

GERBEC, Miro, Potpukovnik dr.; MORELJ, Marjan, Pukovnik dr.

Virology laboratory as an aid to physician in clinical and
epidemiological work; rickettsial diseases. Voj. san. pregl.,
Beogr, 13 no.7-8:378-382 July-Aug 56.

(RICKETTSIAL DISEASES, diag.
laboratory diag. (Ser))
(LEPTOSPIROSIS, diag.
same)

MOHILJ, Mardjan; GURERO, Mire; VENSTO, Ičabomir; MEL, David

to fever; isolation of toxigenic *Campylobacter* from raw chicken
san. progl., Beogr. 14. 10. 91: 260-269 May 1991.

L. Katedra za higijenu i mikrobiologiju Fakulteta vojnih znanosti
u Panonskom institutu,

(to FEVER, microbiol.)

isolation of toxigenic *Campylobacter* from raw chicken
(GURERO
name)

SG SPB, virus; Mortality, Morbidity

[REDACTED] of low titer in epidemiology of e-fever. Vol. 8 no. speci.,
3 apr. 1968; 321-327 June 57.

1. uvedeno za higijenu i epidemiologiju VMA, mikrobiologiju i epidemiologiju
i fito.

(1) RUM, svideč.

Ustav za higijenu (Sv.)

GERBEC, Miro; HERDEV, Josin

Serologic analysis in retrograde studies on influenza epidemic.
Voj. san. vregl., Beogr. 14 no.6:334-340 June 57.

1. Katedra za higijenu i epidemiologiju VMA, Mikrobiolski institut,
(INFLUENZA, epidemiol.

in armed forces personnel in Yugosl., retrograde serol., Ser))
(ARMED FORCES PERSONNEL, dis.
influenza epidemic, retrograde serol. (Ser))

GERBEC, Miroslav, Morelji, Marijan; PAGON, Stojan

Low antibody titres in the complement fixation test; a specific tool
in the epidemiology of Q fever. J. Hyg. Epidem., Praha 2 no.4:395-403
1958.

1. Military Medical Academy, Belgrade, Yugoslavia (for Gerbec).
(Q FEVER, diagnosis,
complement fixation test, low antibody titer)
(COMPLEMENT,
fixation test in Q fever, low antibody titer)

GERBEC, Miro, Sanitetski potpukovni, D-r.; HENEBERG, Dorde, Sanitetski potpukovnik D-r.

Preliminary experiences with ornithosis. Voj. san. pregl. Beogr.
15 no.9:632-637 Sept 58.

. Vojnomedicinska Akademija u Beogradu Mikrobioloski institut.
(ORNITHOSIS, case reports
(Ser))

MORELJ, M.; GHEBEC, M.

Immunological analysis of some strains of *Coxiella burnetii*. Acta virol.
Engl. Ed., Praha 3 no.1:37-45 Jan 59.

1. Institute of Microbiology, Military Medical Academy, Belgrade.
(*COXIELLA BURNETI*
immunol. analysis of various strains)

GERBEC,Miro, sanitetski potpukovnik doc. dr

Results of the investigation of Q fever in our army over the period of several years. Voj.san.pregl., Beogr. 17 no.4:439-446 Ap '60.

1. Mikrobioloski institut.
(Q FEVER epidemiol.)
(MILITARY PERSONNEL dis.)

GERBEC, M.

Microbiological diagnosis of Q fever. Higijena, Beogr. 12 no.2/3:
190-197 '60.
(Q FEVER diag)

GERBEC, Miro, sanitetski potpukovnik doc. dr

Medico-military significance of leptospirosis. Voj.san.pregl., Beogr.
18 no.l:57-62 Ja '61.

1. Vojnomedicinska Akademija u Beogradu, Higijenski zavod -
Mikrobioloski institut
(MILITARY MEDICINE)
(LEPTOSPIROSIS epidemic)

GERBEC, Miro, sanitetski potpukovnik, doc., dr.

Recent progress in virology. Voj.san.pregl. 18 no.6/7: 555-558
Je-Jl '61.

1. Vojnomedicinska akademija u Beogradu, Mikrobiolski institut.

(VIRUSES)

GERBEC, Miro, sanitetski potpukovnik, doc., dr.

A rapid laboratory diagnosis with the aid of fluorescent antibodies.
Voj.san.pregl. 18 no.6/7:574-579 Je-Jl '61.

1. Vojnomedicinska akademija u Beogradu, Mikrobiolski institut.

(ANTIBODIES)

GERBEC, Miro, sanitetski potpukovnik, doc., dr.

Recent progress in virology. II. Voj.san.prez. 18 no.8:683-688 Ag '61.

1. Vojnomedicinska akademija u Beogradu, Mikrobioloski institut.

(VIRUSES)

GERBEC, Miro, sanitetski potpukovnik, doc., dr.

Recent achievements in virology. Vojnosanit. pregl. 18 no.9:778-783
S '61.

1. Vojnomedicinska akademija u Beogradu, Higijenski zavod - Mikrobioloski
institut.

(VIRUSES)

GERBEC, M.

Improvements in preparation of rickettsial type - specific and group-specific antigens. Acta virol (Praha) [Engl] 8 no.1:52-58 Ja'64.

1. Microbiological Institute, Military Medical Academy, Belgrade, Yugoslavia.

*

GIRBO, Hiru, submitted below was present. Dr. T. L. V. MUNIZ, Arara
Santos, Brazil, major, Dr.

Variations of influenza viruses A and B and their role in
epidemics. Virologist, pregi, 21 no.4: 29-53 Apr '64

MORELI, Marjan, prof. dr.; GERBEC, Miro, prof. dr.; BUDILAK, Iva, doc.dr.:
TURK, Anka, dr.; NIKOLIC, Borivoj, dr.; KALOVAR VIT, Miroslav, cr.

Some current findings on acute respiratory infections of viral
etiology. Med. glas. 19 no.8/9:205-209 Ag-3 '65.

1. Vojnchigijenski zavod VMA u Beogradu (Nacelnik: prof. dr. M. Morelj).

ACC NR: AP6029582

SOURCE CODE: YU/0015/65/000/08-/0205/0209

AUTHOR: Morelji, Marjan (Professor; Doctor); Gerbec, Miro (Professor; Doctor); Bogdanov, Lea (Docent, Doctor); Turk, Anka (Doctor); Nikolic, Borivoj (Doctor); Radovanovic, Miroslav (Doctor)

ORG: Department of Military Hygiene, VMA/headed by Professor, Doctor M. Morelji, Belgrade (Vojnogigijenski zavod VMA)

TITLE: Current experiences in identification of acute respiratory infections of viral origin

SOURCE: Medicinski glasnik, no. 8-9, 1965, 205-209

TOPIC TAGS: virus disease, respiratory system disease, immunology, clinical medicine, disease incidence

ABSTRACT: Comprehensive diagnostic especially serologic, complement-fixation and other immunologic tests with data on 1940 soldiers with upper respiratory infections of proven or probable viral etiology. Seasonal incidence, symptoms, signs, findings, severity, duration and other clinical aspects are described and discussed. Orig. art. has: 1 figure and 6 tables. [JPRS: 36,599]

SUB CODE: 06 / SUBM DATE: none / ORIG REF: 010 / OTH REF: 001

Card 1/1 HS

0917 2676

Epidemiology

YUGOSLAVIA

MORELJ, Prof. Dr. Mirjan; GURDUC, Prof. Dr. Mirko; BOGDANOV, Docent Dr. Lea; TURK-DROBNJAKOVIC, Dr. Anka; MICI, Prof. Dr. Ratibor; and ANDELKOVIC, Dr. Dragana, Military Medical Academy of the Armed Forces of Yugoslavia (Vojno-medicinska akademija JNA) Institute of Hygiene, Clinic of Internal Medicine (Higijenski zavod, Internal klinika) and Federal Institute for National Health (Savezni zavod za zdravstvenu zaštitu) Belgrad

"Epidemiologic and Clinical Problems of Pneumonia in Yugoslavia"

Beograd, Narodno Zdravije, Vol 23, No. 4, 1966; pp 119-128

Abstract: Analytical reporting and very briefly discussing data over the past ten years or specific years therein regarding mortality from pneumonia by age, types of pneumonia morbidity, sex and age correlations, causes of pneumonia in hospitals, percentage of various types during various years, comparison with influenza, pertussis and other diseases. 10 graphs, 7 tables, 23 Yugoslav, 2 Soviet and 41 Western references.

1/1

GERBEDZIOVSKIY, F.B.

New compressors manufactured at the "Borets" plant. Biul.tekh.-
ekon.inform.Gos.nauch.-issl.inst.nauch.i tekhn.inform. 16 no.6:
38-42 '63. (MIRA 16:8)
(Air compressors)

GERBEDZIOVSKIY, F.B., inzh.

Compressor stuffing boxes made of fluoroplast 4. Klimashinogr. no. 3
14-16 Myaslo '64. (MIRA 18:1)

GIRBEK, E.F.; YEVDOKIMOV, G.S.

Geology of the Sorskoye molybdenum deposit. Geol. i geofiz. no.7:
127-129 '60. (MIRA 13:9)

1. Krasnoyarskoye geologicheskoye upravleniye.
(Kuznetsk Ala-Tau--Geology)

SYCHEV, A.Ya.; GERBELEU, A.P.; MIGAL', P.K.

Thermodynamics of a stepped complex formation of nickel ions with
triethanolamine. Zhur.neorg.khim. 8 no.9:2070-2073 S '63.
(MIRA 16:10)

ABLOV, A.V.; GERBELEU, N.V.

Complex compounds of trivalent cobalt with dimethylglyoxime and
thiosemicarbazones. Zhur.neorg.khim. 6 no.12:2686-2692 D '61.
(MIRA 14:12)

1. Institut khimii, Moldavskiy filial AN SSSR.
(Cobalt compounds) (Glyoxime) (Semicarbazones)

ABLOV, A.V.; GERBBLEU, N.V.

Metal derivatives of thiosemicarbazones. Zhur.neorg.khim. 9 no.1:85-93
Ja '64. (MIRA 17:2)

1. Akademiya nauk Moldavskoy SSR, Institut khimii.

ABLOV, A.V.; GERBELEU, N.V.

Derivatives of thiosemicarbazone of salicylaldehyde with trivalent cobalt. Zhur. neorg. khim. 9 no.10:2325-2332 O '64.
(MIRA 17:12)

1. Akademiya nauk Moldavskoy SSR Institut khimii.

ABLOV, A.V.; GERBELEV, N.V. [Gherbolev, N.V.]

Derivatives of the reaction of salicylaldehyde chiosemicarbazone
with nickel, copper, and zinc. Zhur. neorg. khim. 10 no.5:1155-
1159 My '65. (MIRA 18:6)

1. Institut khimii AN Moldavskoy SSR.

ABOV, V.V., GURSKY N.Y.

Thiocarbonylcarbazone derivatives of salicylaldehyde with trivalent chromium and trivalent iron. Zhur. neorg. Khim. 10 no.2:61-67
(MIR 1965)

U. Institut khimii AN Moldavskoy SSR Kishinev. submitted
July 24, 1963.

GINTER,E.; BOBEK,P.; GERBELOVA,M.; ONDREICKA,R.; BILISICS, L.

Lipid metabolism under conditions of acute and chronic
L-ascorbic acid deficiency in guinea-pigs. Physiol. Bohemo-
slov. 14 no.3:282-288 '65.

1. Institute of Human Nutrition, Bratislava.

GERBEN, Zoltan, Dr.; ORS, Felix, Dr.

Severe gastrointestinal hemorrhage following liver injury; hemobilia
traumatica, traumatic intrahepatic pseudoaneurysm. Orv. hetil. 98 no.34:
932-936 25 Aug 57.

1. A Pecsi Orvostudomanyi Egyetem I. sz. Sebeszeti Klinika Janak
(Igazgato: Schmidt Lajos dr. egyet. tanar) es I. Belklinika Janak
(igazgato: Angyan Janos dr. egyet. tanar) kozlemenye.

(GASTROINTESTINAL SYSTEM, hemorrh.

traumatic hemobilia, case report (Hun))

(LIVER, rupt.

posttraumatic hemobilia, case report (Hun))

GERBER, A. (Krasnodar)

Whims of a talent. Izobr.i rats. no.12:23-24 D '62. (MIRA 15:12)
(Technological innovations)

GERBER, Alla

The miracle of Zhen'ka Kolokolov. Sov. profsoiuzy 18 no.15:
29-30 Ag '62. (MIRA 15:7)

1. Mekhanicheskiy zavod imeni Yaroslavskogo, Moskva.
(Moscow--Community and school) (Moscow--Machinery industry)

GERBER, E. I.

GERBER, E.

Hungarian Technical Abst. Vol. 5 No. 4 10. Remarks on the simultaneous determination of methylamines and ammonia--Magjegyzesek a metilaminek és ammonia egymás melletti meghatarozásához--P. Hidi and E. Gerber. (Journal of the Hungarian Chemical Society--Magyar Kemikusok Lapja--Vol. 7, 1952, No. 10, pp. 316-318, 2 figs., 1 tab.)

A chromatographic method is used for the analytical separation of trimethylamine, dimethylamine, monomethylamine and ammonia. A potato starch is mixed with 2% CaO. The eluting liquid is n butanol saturated with water. Each basic fraction runs off in the above sequence in accordance with the quotients of distribution and separated by clearly defined intervals. Each fraction is observed and qualitatively determined by the continuous titration of the solution discharged from the column with 0.05 n HCl in the presence of methyl red used as an indicator. A 2 atm pressure is applied for accelerating the passage of the 180 ml eluting liquid through the 30 cm long column. A description of an apparatus suitable for routine analyses is given. The method of preparing the butanol solution and the elimination of the disturbing effect of the volatile organic substances are described in detail. It is obvious from the data listed in the tables that the error of determination amounts to 0.3 to 1.3 per cent.

P. Hidi

MF
4-14-54

GERBER, E.L.

Morbid anatomy of cardiogenic psychoses in the involutional age.
Zhur. nerv. i psikh. 60 no. 6:750-757 '60. (MIRA 13:12)

1. 3-ya gorodskaya psikhonevrologicheskaya bol'nitsa (glavnnyy
vrach N.N. Krylova), Moskva.
(PSYCHOSES) (CARDIOVASCULAR SYSTEM--DISEASES)

GERBER, E.L.

Case of necrotic nephrosis in aminazine therapy. Zhur. nevr. i
psikh. 63 no.8:1217-1222 '63. (MIRA 17:10)

1. Laboratoriya patomorfologii (zav. V.A. Romasenko) Instituta
psichiatrii AMN SSSR, Moskva.

GABRIEL, Ferenc (Budapest); Szerejai, Istvan (Budapest); GYURKO, Lajos (Budapest)

Forum of innovators, 14th Apr 1990, p. 30, 10 Mr '90.

HARSING, László; DUBECZ, Erzsébet; KOVER, György; NAGY, János; és
GERBER, Katalin; TAKÁCS, Éva, technikai segédleírás

Effect of hypothermia on the level of substituted Na. Kísérletes
orvostud. 13 no.4:373-380 Ag '61.

1. Budapesti Orvostudományi Egyetem Elettani és Orvosfizikai Intézete.

(BODY TEMPERATURE) (SODIUM metab)

HARSING, Laszlo; NAGY, Janos; KOVER, Gyorgy; DUHECZ, Erzsebet; es GERBER,
Katalin; TAKACS, Eva technikai segedletevel

Effect of hypothermia on transcapillary Na substitution. Kiserletes
orvostud. 13 no.4:385-391 Ag '61.

1. Budapesti Orvostudomanyi Egyetem Elettani es Orvosfizikai Intezete.

(BODY TEMPERATURE) (SODIUM blood)

GERBER, K.B.

Bunkers used for receiving chaff. Obm. tekhn. opyt. [MLP] no.4:32-34
'56. (MIRA 11:10)

(Textile factories--Equipment and supplies)

GERBER, K.B.

Using 2mm. steel in the manufacture of air pipes for chaff ventilation.
Obm. tekhn. opyt. [MLP] no.4;34-38 '56. (MIRA 11:10)
(Air pipes)

S/137/61/000/010/005/056
A006/A101

AUTHORS: Gerber, L. M., Gritsuk, L. D.

TITLE: A method for detecting leakages in pipes with the aid of compressed air

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 10, 1961, 24, abstract 16V165.
("Sb. nauchn. tr. Gos. n.-i. i proyektn. in-t. metallurg. prom-sti
"Giprostal'", 1960, no. 2, 88 - 91)

TEXT: The method for detecting leakages in cooling pipes of the evaporation cooling system in blast furnaces, is based on the following process; compressed air is top-supplied to the pipe with the moving liquid, under a pressure exceeding the external one. Simultaneously the slide gate below the spot of leakage is closed. The air will then press out all the liquid above the spot of leakage and the "liquid-air" boundary will be established at the level of the leakage. The cooler must be preliminarily converted to cooling with technical water. For this purpose an indicator device was developed to determine the water level in pipes by examining them with the aid of radioactive isotope radiation. ✓

[Abstracter's note: Complete translation]

A. Pochvisnev

Card 1/1

GERBER, L. N., GULDIN, M. L., and RUTGAY MR, V. D.

"Gamma-Relay for Small Drops in the Intensity of Radiation"

paper presented at the All-Union Seminar on the Application of
Radioactive Isotopes in Measurements and Instrument Building,
Frunze (Kirgiz SSR), June 1961)

So: Atomnaya Energiya, Vol 11, No 5, Nov 61, pp 468-470

VAYNSHTEYN, L.; GERBER, M.

Determining labor involved in the output of sugar factories.
Biul.nauch. inform.: trud i zar. plata 5 no.3:10-12 '62.
(MIRA 15:3)
(Kharkov Province--Sugar industry)

VAYNSHREYN, L.B.; GERBER, M.I.

Measuring labor productivity in the sugar industry.
Sakh.prom. 34 no.8:47-51 Ag '60. (MIRA 13:8)

1. Ukrainskiy nauchno-issledovatel'skiy institut pishchevoy
promyshlennosti.
(Sugar industry—Labor productivity)

C4

24

Conditions of ignition of gaseous mixtures. XIII.
The effect of admixture of organic peroxides on the formation of cold flame of butane. R. I. Blat, M. I. Gerber, and M. B. Neiman. *J. Gen. Chem. (U. S. S. R.)*, 19, 732-47 (1939); cf. Neiman and Tatalin, *C. A.* 33, 4424. — Addn. of K_2O_2 or $\text{Mg}(\text{O}_2)_2$ to a CaH_2O_2 soln. decreased the cold-flame induction period. The cold flame was formed as the result of accumulation of a critical concn. of peroxides. The thermal decompr. of peroxides induced the cold-flame formation, which in turn could be transformed into the hot flame if the initial pressure of the mist was above a certain value. Math. deductions, based on the assumption that during the cold-flame induction period the reaction proceeded and was catalyzed by the peroxides, were developed. The velocity of this reaction is given by $dx/dt = a_1 + bx^2$, where a_1 is the velocity of primary oxidation process, b is a const., and x the amt. of peroxides. The calcd. induction period agreed well with the observed values. Twenty-one references. A. A. P.

The effect of organic peroxides on the cool flame of butane. B. J. Blod, H. J. Gribet and M. B. Neiman. *Acta Physicochim. U. R. S. S.* 19, 273-95(1939)(in English). -Diethyl peroxide (I), $\eta_2^0 = 1.27025$, was prep'd. From vapor pressure data, $\rho = 5.5$ at -40° 107 at 31.0° , 700 at 65° ; $\lambda = 7200$ cal./mol. and $\lambda/T_0 = 21.7$. For 2-methyl peroxide, Me_2O_2 (II), $\lambda = 8400$ cal. and $\lambda/T_0 = 22.2$. At 195° the rate of decompo. $k = [2J/(A - k_1)] \ln(1 - x_1)/(1 - x_0) = 0.0187$ at 5 min., and increases extrapolically to 0.0038 at 30-35 min. From 178 to 185° , the energy of activation is 21,000 cal. Addn. of N accelerates the decompo. The crit. pressure region is given by $\ln \rho = (A/T) + B$, where $A = 8500$, $B = -6.44$, giving $E = 16,000$, indicating that the process is a chain reaction. For II, $\ln \rho = (6050/T) + 11.0$. For the cool butane flame the induction period is given by $v_1(\rho - \rho_0)^{-1} \cdot 10^6 \text{ sec.}^{-1} = \text{const.}$ At 300° , $v_1 = 22.6$ at 300, 0.4 at 200 and 5.4 at 100 mm.; at 230° , $v_1 = 21.4$ at 180, 2.7 at 200 and 1.8

at 400 mm. Addn. of I or II reduces v_1 according to the equation $v_1 = (1/k) \ln((\rho_0/\rho) + x_1) - \ln z - b[\rho - (\rho_0/\rho_0)]$ or $b_{v_1} = \ln x_0 - \ln z$. For I, $b = 0.08$ ($\rho - \rho_0)^{1/2}$ at 300° , and 0.167 ($\rho - \rho_0)^{1/2}$ at 230° . The values of x_0 vary with the previous treatment of the walls from 0.16 to 0.0003. Since b remains const. with changing wall treatment, the peroxide effect on butane oxidation is a homogeneous process. It is concluded that the cool flame is a two-stage process, initial formation and chain branching on the walls, followed by homogeneous peroxide catalysis. A min. crit. concn. of peroxide for cool flame appearance is found for I at 240° and for II at 270° .

P. H. Rathmann

AB-51A METALLURICAL LITERATURE CLASSIFICATION

FROM SOURCE

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1940-1949 REF. DIV. 100

CARD NO. 10

COLLECTOR

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1940-1949
REF. DIV. 100

Polarographic determination of aldehydes M. I. Gerber, A. A. Bobitinskaya, and M. B. Neiman *Izdy Voprosy Kinetiki i Detn. Khim.*, 2, 565 (1958).
Aldehydes can be sep'd. by evapn. by blowing H through the soln. An equation for the velocity of vaporization of the volatile substances was derived and emp'tly verified. The equation obtained can be used for a sep. detn. of volatile compds. reduced at the Hg drop electrode of the same potential. Repts. with acrolein show that the polarographic method can be used for the detection and detn. of acetoin. Acetoin can be detd. in acid (pH 3-4) or weakly alk. (pH 8) soln. At pH 4.0 the diffusion current of acetoin changes rapidly with the change in pH. In the presence of acid, aldehydes acrolein should be detd. in ac. solns., because the acid. aldehydes are not reduced under these conditions. The polarographic method can be used also for the detn. of aldehydes and peroxides in complex org. mixts. The content of CHO in the presence of acrolein can be detd. by adding dimedon to the mist. The deviations of chem. and polarographic detns. do not exceed 3%. 15 references. W. R. Henn

ENTOMOLOGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 09/24/2001

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C. 6.

Polarographic determination of some organic peroxides. M. B. Neiman and M. I. Gorbil (Gor'ki State Univ.). *Zhur. Anal. Khimii* 1, 311-317 (1946). - The electrode reduction of Me and Et hydroperoxides, Et_2O_2 , acetone triperoxide, and cyclohexene peroxide was studied. The reduction potentials of Me and Et hydroperoxides were -0.23 and -0.2 v. resp. Best results were obtained by carrying out the polarographic detns. in a 0.02 N HCl soln. At concns. of up to $2 \cdot 10^{-4}$ mol. per l. the anode Hg remained clean 15-30 min. which allowed sufficient time for detns. At higher concns. the peroxide decompl. on the anode and interfered with the detns. In such cases, i.e., at higher concns. of peroxide, an agar-agar bridge was used to sep. the peroxide soln. from the Hg. The reduction potential of Et_2O_2 was in acid medium -0.5 and in alk. medium -1.0 v. The reduction potential of acetone triperoxide in 0.02 N HCl soln. was -0.6 v. O interfered with the detns. and should be excluded by passing H. The reduction potential of cyclohexene peroxide was -0.03 v. M. Hirsch

APPENDIX A METALURGICAL LITERATURE CLASSIFICATION

1373-335X

APPROVED FOR RELEASE: 09/24/2001

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GERBER, M. I.

Gorky State Univ., Sci. Res. Inst. of Chem. (-1946-)

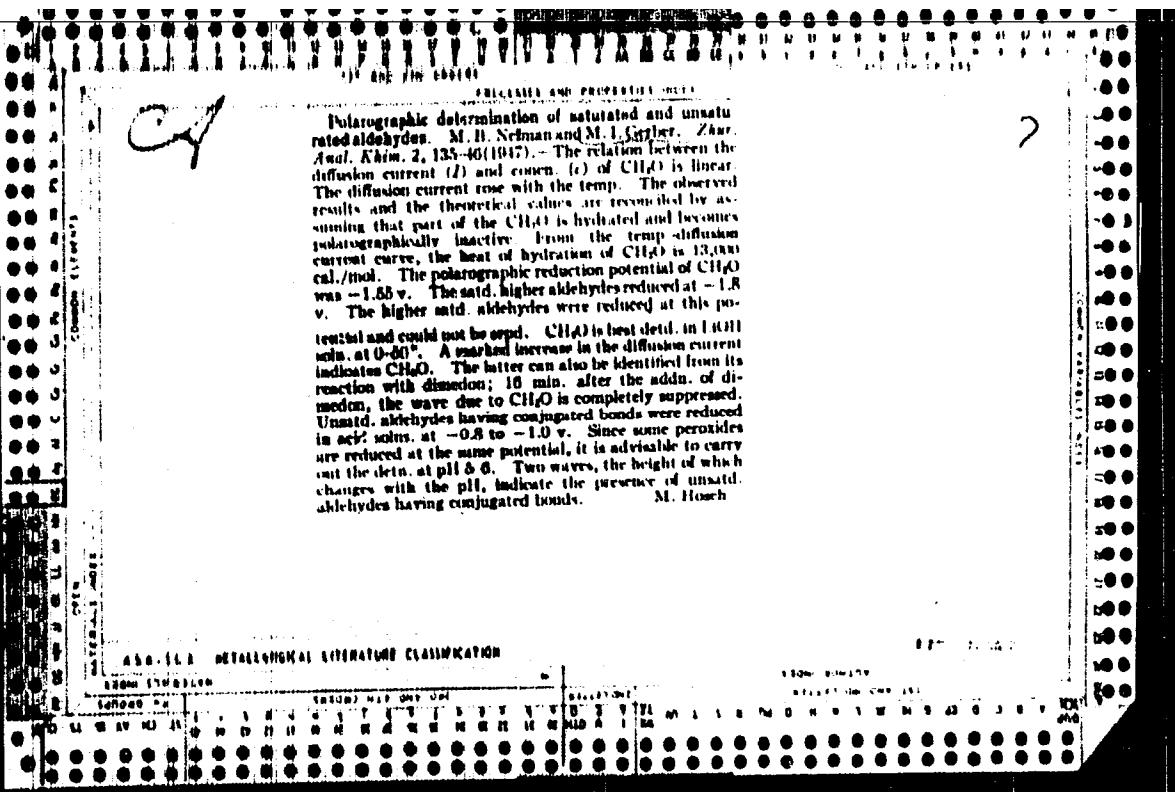
Inst. of Chem. Physics, "cad. Sci., (-1946-)"

"The Determination of Certain Organic Peroxides by the Polarographic Methods,"

Zhur. Analit. Khim., No. 4, 1946.

APPROVED FOR RELEASE: 09/24/2001

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1

Polarographic analysis of sulfide compounds
Hydrogen sulfide and mercaptans. M. I. Gerber. *Zhur Anal. Khim.* 2, 265-73 (1947). - The purpose of this investigation was a procedure for detg. H₂S and RSH in gasoline. All detns. were carried out at 15°. As solvent H₂O/H₂ was used. H₂S gave 2 anodic curves; of these the 1st was reproducible with a nonpolarizing electrode while the 2nd was not. The potential at which the current equalled zero was what Kolthoff and Miller (C.A. 34, 1380) call a mixed potential. The relation between the diffusion current (i_d) of the 1st curve and the concn. of H₂S was $i_d = 7.00c$. In the presence of substances giving a diffusion current within the same limits of potential as H₂S, a detn. was made first of the soln., then Cd(NO₃)₂ was added to ppt. CdS and another detn. was made. The concn. of H₂S was calc'd. from the difference. RSH mercaptan, like H₂S, gave 2 curves of which the 2nd was not reproducible. For RSH $i_d = 3.40c$. BuSH was detd. in 80-90% alc. In the presence of 0.025 N H₂SO₄ and its buffered solns. of AcOH and Na acetate, BuSH gave 2 curves. For the 1st of these in 80% alc. $i_d = 2.90c$ and in 90% alc. $i_d = 3.20c$. As the % of alc. in the analyzed solns. of H₂S and mercaptans decreased, i_d decreased. This is taken to indicate that the mols. of H₂S and the studied mercaptans hydrate, thereby reducing i_d . The accuracy of the detns. is unaffected thereby provided the standards are prep'd. in alc. of the same strength as the analyzed solns.
M. Hoch

APPENDIX METALLURGICAL LITERATURE CLASSIFICATION

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Polarographic method of determination of aldehydes and ketones with conjugated bonds. M. I. Gordin, D. Kusnetsova, and M. B. Neiman. *Zhur. Tekhn. Khim.* 10(2) 7 (1949). Citral, cinnamaldehyde, jasmine aldehyde, anisaldehyde, piperonal, methylihone, pseudomethylione, and citronellal were determined polarographically in acid (HCl), neutral (LiCl), and alk. (KOH) solns. The aldehydes were taken in alc. solns and mixed with an soln of the respective supporting electrolytes. When the alc. and eq. solns. were mixed in ratios of 1:2 or 1:1, the polarograms had maxima which could not be depressed by gelatin. The maxima disappeared when the ratio of the solns. was 2:1. The reduction potential of these substances depended on the medium. The relation between the height of the curve and concn. of aldehyde was a straight line for which the equation was $I = Km^2 \sqrt{v} + b$, where I is the diffusion current in microamps., m is the concn. of substance in mol./l., m is the rate of dropping of Hg in mg./sec., v period of dropping, and K is a const. The reduction potentials and K for these substances were:

	HCl - E K	LiCl - E K	KOH - E K
Citral	0.90 1.45 1.56 1.25 1.40 1.30		
Cinnamaldehyde	0.65 1.82 1.20 1.05 1.20 1.05		
Jasmine aldehyde	0.75 1.55 1.55 1.44 1.40 1.35		
Anisaldehyde	1.00 1.05 1.00 2.00 1.70 1.90		
Piperonal	0.95 1.08 1.55 1.00 1.50 1.70		
Methylihone	0.95 1.80 1.75 1.75 1.20 1.80		
Pseudomethylione	0.80 1.07 1.40 1.67 1.40 1.67		

The values of B are given in v. Citronellal could be reduced only in neutral or alk. soln. in which case the reduction potential was -1.9 v. and the value of K 1.15.

M. Busch